

1993 North Dakota Barley Varieties

July 16, 1993

Highlights

Robust remained the most popular barley variety in North Dakota for 1993. It accounted for 55.9 percent of the 3.0 million acres planted, up from 53.5 percent in 1992. Robust has led for nine years. Bowman remained second for the third year, accounting for 17.5 percent. Excel, Azure and Morex followed with 9.4, 5.9 and 5.8 percent, respectively. Robust, Excel, Azure, and Morex are recommended for malting and brewing by the American Malting Barley Association, Inc. The top five varieties accounted for 94.5 percent of the barley planted.

These data are based on results of a June survey of 1,800 producers conducted by the North Dakota Agricultural Statistics Service. Supporting funds for the survey were provided by the American Malting Barley Association, Inc. and the North Dakota Barley Council. North Dakota State University Extension Service provided variety descriptions.

North Dakota ranks first in all barley acreage, accounting for 38 percent of the nation's total, with 3 million acres planted in 1993.

Malting Varieties

Robust remained the number one malting barley variety in North Dakota in 1993 by a large margin over Excel, Azure and Morex, three other popular malting varieties. Robust accounted for 55.9 percent of the total acres planted. It was the leading variety in the north central, northeast, central, east central and southeast districts. Robust, characterized by tall height, medium-strong straw, medium relative maturity, is moderately susceptible to leaf diseases.

Excel, a 1990 Minnesota variety, replaced Morex as the second leading malting variety and was in third place overall. It accounted for 9.4 percent of all barley acres, up from 7.3 percent in 1992. Excel's popularity has been increasing since it was released in 1990. It was the leading malting variety in the northwest. Excel has medium-short height, very strong straw, medium maturity and is moderately susceptible to leaf diseases.

Azure moved up to the third place malting variety in 1993 after falling to fourth place in 1992. Although Azure moved up in ranking, it only accounted for 5.9 percent of the barley acres, down from 6.8 percent in 1992. It has been losing popularity since

1988, with the exception of a slight increase in 1991. The central district is where Azure was the most popular. It has medium height, strong straw medium-early relative maturity and is moderately susceptible to leaf diseases.

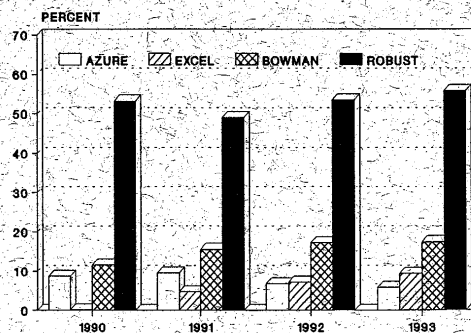
Morex dropped to the fourth place malting variety in 1993, after remaining in second place for four consecutive years. Morex's popularity has been declining for seven consecutive years, dropping from 9.8 percent in 1992 to 5.8 percent in 1993. It was popular in the northwest and north central districts. Morex has tall height with early relative maturity, medium straw strength and is moderately susceptible to leaf diseases.

Feed Varieties

Bowman remained first among feed varieties and second among all barley. Bowman accounted for 17.5 percent of the total barley acres planted in 1993. It was the most popular of all varieties in the southwest, south central, and west central districts. It also tied with Excel for the most popular variety in the northwest district. Bowman is short, has medium-strong straw, is medium-early maturing and is moderately susceptible to leaf diseases.

Stark and Gallatin tied for second place as the most popular feed varieties with 1.6 percent of the total acres planted. Stark was popular in the west central district, while Gallatin was popular in the southwest.

**BARLEY
LEADING VARIETIES PLANTED
North Dakota, 1990 - 93**



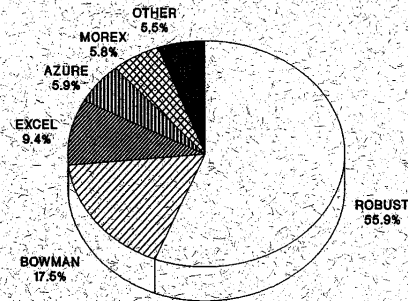
BARLEY VARIETIES (Continued)

PERCENT OF ACREAGE PLANTED BY VARIETY,
NORTH DAKOTA, 1989 - 93

Variety	1989	1990	1991	1992	1993	
					Pct.	Acres-Planted
	Percent					(000)
* Robust	46.7	53.2	49.1	53.5	55.9	1,676.4
Bowman	11.2	11.6	15.6	17.3	17.5	524.8
* Excel	0.0	0.2	4.8	7.3	9.4	282.3
* Azure	15.8	8.7	9.5	6.8	5.9	176.0
Morex	16.1	13.8	12.7	9.8	5.8	174.6
Stark	0.0	0.0	0.0	0.1	1.6	48.8
Gallatin	0.0	0.4	1.2	1.1	1.6	47.0
Hector	1.0	1.0	1.3	0.7	0.4	12.6
Hazen	1.2	0.3	0.5	0.8	0.3	10.3
Bedford	0.0	0.0	0.0	0.2	0.3	8.7
Other	8.0	10.8	5.3	2.4	1.3	38.5
ALL VARIETIES	100.0	100.0	100.0	100.0	100.0	3,000.0

* Recommended for malting and brewing by the American Malting Barley Association, Inc.

BARLEY
PERCENT OF TOTAL PLANTED
North Dakota, 1993



PERCENT AND ACREAGE PLANTED BY AGRICULTURAL STATISTICS DISTRICTS, NORTH DAKOTA, 1993

Variety	Northwest	North Central	Northeast	West Central	Central	East Central	Southwest	South Central	Southeast	State
	Percent Planted									
Robust	21.8	51.4	87.6	7.5	41.4	84.6	1.2	10.2	56.9	55.9
Bowman	25.5	9.0	0.0	64.9	11.6	0.1	81.9	74.3	9.5	17.5
Excel	25.5	17.7	6.5	3.2	8.0	4.6	0.2	1.0	11.6	9.4
Azure	0.3	6.5	1.2	2.3	30.4	7.0	0.3	0.8	9.9	5.9
Morex	17.3	13.1	3.0	2.6	5.1	1.9	0.0	2.6	4.6	5.8
Stark	2.4	0.9	0.4	8.6	2.2	0.2	3.2	3.5	1.3	1.6
Gallatin	3.2	0.0	0.0	7.7	0.0	0.1	9.9	4.3	0.1	1.6
Hector	1.0	0.0	0.0	2.1	0.0	0.0	2.0	1.8	0.0	0.4
Hazen	1.7	0.2	0.0	0.2	0.2	0.0	0.0	1.0	0.8	0.3
Bedford	0.0	0.7	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.3
Other	1.5	0.5	0.7	1.0	1.1	1.5	1.4	0.5	5.3	1.3
	Thousand Acres									
Robust	67.5	221.0	709.6	12.7	103.5	423.0	2.0	14.8	122.3	1,676.4
Bowman	78.9	38.5	0.0	110.3	29.1	0.6	139.2	107.7	20.5	524.8
Excel	79.0	76.0	52.3	5.4	19.9	23.0	0.4	1.4	24.9	282.3
Azure	0.8	28.0	9.5	3.9	76.0	34.9	0.5	1.1	21.3	176.0
Morex	53.5	56.4	24.7	4.4	12.7	9.3	0.0	3.8	9.8	174.6
Stark	7.5	3.9	3.0	14.7	5.5	0.8	5.4	5.1	2.9	48.8
Gallatin	10.0	0.0	0.0	13.1	0.0	0.6	16.8	6.3	0.2	47.0
Hector	3.1	0.0	0.0	3.5	0.0	0.0	3.4	2.6	0.0	12.6
Hazen	5.2	1.0	0.0	0.3	0.6	0.0	0.0	1.5	1.7	10.3
Bedford	0.0	2.9	5.5	0.0	0.0	0.3	0.0	0.0	0.0	8.7
Other	4.5	2.3	5.4	1.7	2.7	7.5	2.3	0.7	11.4	38.5
ALL VARIETIES	310.0	430.0	810.0	170.0	250.0	500.0	170.0	145.0	215.0	3,000.0